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REPORT OF THE COMMITTEE ON WATER CONSUMPTION¹

This committee was continued mainly for the purpose of securing by coöperation with the New England Water Works Association, a form for water consumption statistics that would be adopted by both associations. The New England Water Works Association signified its willingness to aid in the accomplishment of this purpose by appointing on the following conference committee: C. M. Saville, P. R. Sanders, E. W. Kent, D. A. Heffernan, E. S. Cole.

Joint meetings have been held, and various members of the committee have presented their views in writing. Your committee submits for consideration two forms to be used in the collection and publication of water consumption statistics. These forms are described as follows:

Form "A," to be used when only water consumption statistics and those closely allied thereto are to be presented.

Form "B," to be used when incorporated in a report, based on the form adopted by the American Water Works Association in 1908.

These forms are attached hereto. The forms have been made as simple as possible, and consistent with the presentation of information which it is believed will generally be considered useful by the water supply profession.

Your committee has been impressed by the dearth of water consumption statistics which are comparable and typical of the various sections of this country. It believes that this association would be rendering a service that the membership generally would appreciate if the association should publish yearly the consumption statistics of typical communities in the various sections of our country. The communities should be selected so that the statistics of a fully metered community would be placed in comparison with those of a community in which only a small fraction of the supply is metered. By selecting say, from 50 to 100 of such communities and enlisting their aid in furnishing accurate statistics, information of great and increasing importance would be made available. Each five years, beginning with the year 1920, statistics should be pub-

¹ Presented at the Richmond Convention, May 11, 1917.

lished, setting forth the more important water consumption figures for a much larger number of communities, selecting these communities so that a reasonable percentage of each size would be recorded. It is suggested that this list include all cities having a population of over 500,000, 50 per cent of those having a population of from 250,000 to 500,000, 25 per cent of those having a population from 100,000 to 250,000, and 10 communities between each of the following limits:

50,000 to 100,000

25,000 to 50,000

10,000 to 25,000

Under 10,000

By coöperation with the New England Water Works Association, the labor and expense of collecting and publishing this information can be divided between the two associations and the information furnished to the combined membership.

Your committee makes the following recommendations:

First. That form "A" be adopted for use where water consumption statistics only are to be recorded.

Second. That a committee on uniform annual reports be appointed, the membership to represent those interested in pumping, filtration, water consumption, distribution, services, meters and financial questions; that the New England Water Works Association be requested to appoint a similar committee; that these committees, if possible, agree on a statistical form which will cover the entire water works field; that the committee of this association report at the next annual meeting the form recommended; and that this committee also report to what extent the association should collect and report statistics, giving the names of the communities from which such statistics should be regularly obtained and published.

Third. That your present committee should be finally discharged.

EDWARD S. COLE, *Chairman.*

WM. W. BRUSH,

J. N. CHESTER,

JOHN W. DUNLAP,

J. H. PURDY.

FORM "A."

(To be used when only water consumption statistics and those closely allied thereto are to be presented.)

- 1 City or town.....
- 2 Year for which report is made.....
- 3 Municipal or private.....
- 4 Miles of mains?.....
- 5 Range of domestic pressure. Is fire pressure raised? What is fire pressure?.....
- 6 Population:

(a) Total.....	{ Last U. S. Census
(b) Supplied.....	{ Estimated total population this date.....
	{ Estimated total population supplied,
	{ using 5 per family
- 7 Total number of services in use.....
- 8 Total number of metered services.....
- 9 Per cent of metered services (8 divided by 7).....
- 10 How is the total water consumption determined:
 - (a) By meter upon supply main?..... (Yes or no)
 - (b) By plunger displacement?..... (Yes or no)
 - Slip allowed.....%
 - (c) Other methods—describe.....
- 11 Total annual water supplied for

domestic uses by metered services.....
Total annual water supplied for
commercial use by metered services.....
Total annual water supplied for
Industrial uses by metered services.....
Total annual water supplied for
public uses by metered services.....
Total metered use?.....
Estimated public use unmetered?.....
Total accounted for?.....
Total annual amount of water supplied, gallons daily?.....
Total unaccounted for?.....
Per cent total supply?.....
- 12 Minimum night rate (1 a.m. to 4 a.m.).....

State how this rate is obtained.....

- 12a Maximum rate (a) without fire.....

(b) With fire.....per hour.....per day.....per
month.....
- 12b Total metered use per capita, daily?.....
- 13 Average supply per tap per day, gallons?.....
- 14 Average supply per day per capita,

{ Total population
based on.....	{ Population supplied.....
- 15 Estimated total daily supply obtained by manufacturing or other plants from sources other than the city supply?.....

- 16 Total per capita daily use, including all supplies?.....
- 17 Cost of supplying water per million gallons, figured on total operating and maintenance?.....
- 18 Total cost of supplying water per million gallons figured upon total operating and maintenance, depreciation and interest upon the fair value of the plant?.....
- 19 Revenue per million gallons.....
- Commercial.* Stores, office building, hotels, boarding houses and similar establishments.....
- Industrial.* Railroads, factories, public gas and electric plants.....
- Public.* All water for public use or paid for from taxation.....

FORM "B."

(To be used when incorporated in a report, based on the form adopted by the Association in 1908)

- 1 How is the total water consumption determined:
 - (a) By meter upon supply main?..... (Yes or no)
 - (b) By plunger displacement?..... (Yes or no).
Slip allowed..... per cent.
 - (c) Other methods—Describe.....
- 2 Total annual water supplied for
 - domestic uses by metered services.....
 - Total annual water supplied for
commercial use by metered services.....
 - Total annual water supplied for
industrial uses by metered services.....
 - Total annual water supplied for
public uses by metered services.....
 - Total metered use?.....
 - Estimated public use unmetered?.....
 - Total accounted for?.....
 - Total annual amount of water supplied, gallons daily?.....
 - Total unaccounted for?.....
 - Per cent total supply?.....
- 3 Minimum night rate (1 a.m. to 4 a.m.).....
State how this rate is obtained.....
- 3a Maximum rate

{	(a) without fire.....
	(b) with fire..... per hour..... per day..... per month.....
- 3b Total metered use per capita, daily?.....
- 4 Average supply per tap per day, gallons?.....
- 5 Average supply per day per capita,

{	Total population
	Population supplied

 based on.....
- 6 Estimated total daily supply obtained by manufacturing or other plants from sources other than the city supply?.....
- 7 Total per capita daily use, including all supplies?.....

- Commercial.* Stores, office building, hotels, boarding houses and similar establishments.....
- Industrial.* Railroads, factories, public gas and electric plants.....
- Public.* All water for public use or paid for by taxation.....